

Natacha Legrix

Curriculum Vitae

45 rue d'Ulm
75005 PARIS
☎ +33 6 38 05 66 47
✉ legrix@ens.fr



Fields of study

- Geosciences* Oceanography, Coastal Hydrodynamics, Climate physics, Climate modeling, Atmospheric chemistry, Radiative transfer, Ocean biogeochemistry, Geophysical Fluid Dynamics, Observation techniques applied to the ocean and atmosphere, Glaciology, Remote sensing, Planetology, Geochemistry, Paleoclimatology, Tectonics, Mineralogy, Seismology, Pedology, Rock Physics, Sedimentology, Petrology, Geodynamics, Hydrology, Geomorphology
- Physics* Fluid and solid Mechanics, Thermodynamics, etc
- Chemistry* Aqueous Solutions, Basic Organic Chemistry
- Maths* Algebra, Mathematical Analysis, Statistics, Inversion methods, Clustering, Fourier transform, etc
- Biology* Physiology, Cell biology, Molecular biology, Vegetal biology, Microbiology, Ecology
- Other* Geopolitics of the environment

Education

- 2019 **PhD studies**, *Climate and environmental sciences, Physics Institute*, University of Bern, Switzerland.
- 2018–2019 **M.Sc. Master of Oceanography - 2nd year**, *Ecole Normale Supérieure, Sorbonnes Université - UPMC*, Paris, *M2*.
- 2017–2018 **Ecole Normale Supérieure Diploma (Equivalent to a pluridisciplinary M.Sc)**, *Ecole Normale Supérieure*, Paris, *Gap year*.
- 2016–2017 **M.Sc. Master of Geosciences - 1st year**, *Ecole Normale Supérieure, Sorbonnes Université - UPMC*, Paris, *M1*.
- 2015–2016 **B.Sc. Bachelor of Geosciences**, *Ecole Normale Supérieure, Sorbonnes Université - UPMC*, Paris, *L3*.
Graduation July 2016
- 2015 **Admitted to the École Normale Supérieure**, after a highly competitive selection process
- 2013–2015 **Two-year scientific program preparing French students to the national "Grandes Ecoles" exam.**, *Lycée Faidherbe*, Lille, France (59), *L1/L2*.
- 2010–2013 **High school**, *Lycée Saint Adrien*, Villeneuve d'Ascq, France (59), High school diploma (Baccalauréat), major in Science, obtained with Honors.

Research internships

- 2018** LOCEAN, Paris, France
4 months Research internship in Oceanography supervised by Dr. Jean-Baptiste Sallée
Topic : Variability in the deep water outflow from the Weddell Sea, Antarctica.
- 2018** LABORATOIRE DE MÉTÉOROLOGIE DYNAMIQUE (LMD), ECOLE NORMALE SUPÉRIEURE, Paris, France
1 month Research internship in Oceanography supervised by Pr. Sabrina Speich
Topic : Statistical study of mesoscale eddies in the global ocean using satellite measurements.
- 2017** DEPARTMENT OF PHYSICS, AUCKLAND UNIVERSITY, Auckland, New Zealand
6 months Research internship in Meteorology supervised by Dr. Gilles Bellon
Topic : Role of the Maritime continent in the Walker Circulation.

2017 LABORATOIRE DE MÉTÉOROLOGIE DYNAMIQUE (LMD), UPMC, Paris, France
1 month Research internship in Meteorology supervised by Dr. Camille Risi
Topic : Deep convection in the Tropics : impact of aggregation on processes that contribute to dry or moisten the environment.

Field work

2016 TOULOUSE, France. Visit of MeteoFrance and the CNES, and introduction to glaciology
2016 VILLEFRANCHE-SUR-MER, France. Acquisition of marine oceanographic and seismic data in the Mediterranean Sea
2016 ALPS, France. Geoid height measurement using GPS
2016 MOUNT ETNA, Italy. Field work in Volcanology
2016 ALPS, France & Italy
Geological mapping
2016 NORTH OF FRANCE : BOULOGNE-SUR-MER, France. Sedimentology and stratigraphy on the channel seashore
2016 CIRTÀ, ECOLE POLYTECHNIQUE, PARIS, France. Remote sensing of the troposphere using LIDAR
2016 INSTITUT DE PHYSIQUE DU GLOBE (IPGP), PARIS, France. Training work on experimental fluid mechanics
2015 ALPS, France & Italy. Tectonic and metamorphic processes across the French and Italian Alps

Languages

Français Fluent
English Excellent writing and speaking
German Mother Tongue, Good writing and speaking
Spanish Elementary
Icelandic Elementary

Computer skills

Programming Python, Matlab, Fortran, NCL
OS Windows, Linux
Publication L^AT_EX, Microsoft Word
Web development HTML, CSS

Student Jobs

Private lessons in Mathematics, Physics, Chemistry, Earth Sciences, French, English and German (several hours per week for the past three years).
Volunteer experience in Norway, Worldwide Opportunities on Organic Farming (wwwoofing).
Novel writer.

Personal Interests

Climate and environmental sciences
Journalism, writing novels, short stories and essays, reading
Travelling and discovering other cultures. Sports : Hiking, Running, Karate, Horse riding